Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-8 (Cancelled)

Claim 9 (Currently Amended) A method for inhibiting synovial cell growth, comprising administering to a patient in need thereof a pharmaceutical composition comprising humanized PM-1 antibody and a physiologically acceptable carrier, wherein said humanized PM-1 antibody comprises

(A) L chains of an antibody to a human IL-6 receptor, each comprising:

(1) a variable (V) region of a light (L) chain of an antibody to the human IL-6 receptor having the following structure:

FR1¹-CDR1¹-FR2¹-CDR2¹-FR3¹-CDR3¹-FR4¹

wherein CDR1¹, CDR2¹ and CDR3¹ represent a set of three complementarity determining regions comprising a set of the following amino acid sequences:

- CDR1¹ Arg Ala Ser Gln Asp Ile Ser Ser Tyr Leu Asn (SEQ ID NO: 2)
- CDR2¹ Tyr Thr Ser Arg Leu His Ser (SEQ ID NO: 3)
- CDR3¹ Gln Gln Gly Asn Thr Leu Pro Tyr Thr (SEQ ID NO: 4); and the FR1¹, FR2¹, FR3¹ and FR4¹ comprise a set of the following amino acid sequences:
- FR1¹ Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala

 Ser Val Gly Asp Arg Val Thr Ile Thr Cys (SEQ ID NO:

 5)
- FR2¹ Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr (SEQ ID NO: 6)
- FR3¹ Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr

 Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro Glu Asp

 Ile Ala Thr Tyr Tyr Cys (SEQ ID NO: 7)
- FR4¹ Phe Gly Gln Gly Thr Lys Val Glu Ile Lys (SEQ ID NO: 8);

<u>or</u>

 $FR1^1$ Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys (SEO ID NO: 5) FR2¹ Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr (SEQ ID NO: 6) FR3¹ Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr Phe Thr Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys (SEQ ID NO: 9) FR4¹ Phe Gly Gln Gly Thr Lys Val Glu Ile Lys (SEQ ID NO: 8); and (2) a C region of an L chain of a human antibody CK; and (B) H chains of an antibody to the human IL-6 receptor, each comprising: (1) a V region of a heavy (H) chain of an antibody to the human IL-6 receptor having the following structure: FR1²-CDR1²-FR2²-CDR2²-FR3²-CDR3²-FR4² wherein CDR1², CDR2² and CDR3² represent a set of three complementarity determining regions comprising a set of the following amino acid sequences: CDR1² Ser Asp His Ala Trp Ser (SEQ ID NO: 10) $CDR2^2$ Tyr Ile Ser Tyr Ser Gly Ile Thr Thr Tyr Asn Pro Ser Leu Lys Ser (SEQ ID NO: 11) $CDR3^2$ Ser Leu Ala Arg Thr Thr Ala Met Asp Tyr (SEQ ID NO: 12); and the FR12, FR22, FR32 and FR42 comprise a set of the following amino acid sequences: $FR1^2$ Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Arg Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Ser Ile Thr (SEQ ID NO: 13) $FR2^2$ Trp Val Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp Ile Gly (SEQ ID NO: 14) $FR3^2$ Arg Val Thr Met Leu Arg Asp Thr Ser Lys Asn Gln Phe Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg (SEQ ID NO: 15)

FR4 ²	Trp Gly Gln Gly Ser Leu Val Thr Val Ser Ser (SEQ ID		
	NO: 16);		
FR1 ²	Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Arg		
	Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly		
	Tyr Thr Phe Thr (SEQ ID NO: 17)		
FR2 ²	Trp Val Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp Met		
	Gly (SEQ ID NO: 18)		
FR3 ²	Arg Val Thr Met Leu Arg Asp Thr Ser Lys Asn Gln		
	Phe Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr		
	Ala Val Tyr Tyr Cys Ala Arg (SEQ ID NO: 15)		
FR4 ²	Trp Gly Gln Gly Ser Leu Val Thr Val Ser Ser (SEQ ID		
	NO: 16);		
FR1 ²	Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Arg		
	Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly		
	Tyr Thr Phe Thr (SEQ ID NO: 19)		
FR2 ²	Trp Val Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp Met		
	Gly (SEQ ID NO: 18)		
FR3 ²	Arg Val Thr Met Leu Arg Asp Thr Ser Lys Asn Gln		
	Phe Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr		
	Ala Val Tyr Tyr Cys Ala Arg (SEQ ID NO: 15)		
FR4 ²	Trp Gly Gln Gly Ser Leu Val Thr Val Ser Ser (SEQ ID		
	NO: 16);		
FR1 ²	Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Arg		
	Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly		
	Tyr Thr Phe Thr (SEQ ID NO: 17)		
FR2 ²	Trp Val Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp Ile		
	Gly (SEQ ID NO: 14)		
FR3 ²	Arg Val Thr Met Leu Arg Asp Thr Ser Lys Asn Gln		
	Phe Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr		
	Ala Val Tyr Tyr Cys Ala Arg (SEQ ID NO: 15)		
FR4 ²	Trp Gly Gln Gly Ser Leu Val Thr Val Ser Ser (SEQ ID		
	NO: 16):		

FR1 ²	FR1 ² Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val A				
	Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly				
	Tyr Thr Phe Thr (SEQ ID NO: 19)				
FR2 ²	Trp Val Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp Ile				
	Gly (SEQ ID NO: 14)				
FR3 ²	Arg Val Thr Met Leu Arg Asp Thr Ser Lys Asn Gln				
	Phe Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr				
	Ala Val Tyr Tyr Cys Ala Arg (SEQ ID NO: 15)				
FR4 ²	Trp Gly Gln Gly Ser Leu Val Thr Val Ser Ser (SEQ ID				
	NO: 16);				
<u>or</u>					
FR1 ²	Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Arg				
	Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly				
	Tyr Thr Phe Thr (SEQ ID NO: 19)				
FR2 ²	Trp Val Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp Ile				
	Gly (SEQ ID NO: 14)				
FR3 ²	Arg Val Thr Met Leu Val Asp Thr Ser Lys Asn Gln Phe				
	Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr Ala				
	Val Tyr Tyr Cys Ala Arg (SEQ ID NO: 20)				
FR4 ²	Trp Gly Gln Gly Ser Leu Val Thr Val Ser Ser (SEQ ID				
	NO: 16);				
<u>and</u>					
(2) a C region of an H chain of a human antibody Cγ.					
(Cancelled)					
(Previously Presented) The method according to claim 9, wherein the patient					
is a human.					
(Previously Presented) The method according to claim 11, wherein the					
antibody is administered in four divided doses from about 1 to 1000 mg.					
(Currently Amended) A method of treating chronic rheumatoid arthritis,					
comprising administering to a patient in need thereof a pharmaceutical					

Claim 10

Claim 11

Claim 12

Claim 13

composition comprising humanized PM-1 antibody and a physiologically acceptable carrier, wherein said humanized PM-1 antibody comprises

(A) L chains of an antibody to a human IL-6 receptor, each comprising:

(1) a variable (V) region of a light (L) chain of an antibody to the human IL-6 receptor having the following structure:

FR1¹-CDR1¹-FR2¹-CDR2¹-FR3¹-CDR3¹-FR4¹

wherein CDR1¹, CDR2¹ and CDR3¹ represent a set of three complementarity determining regions comprising a set of the following amino acid sequences:

- CDR1¹ Arg Ala Ser Gln Asp Ile Ser Ser Tyr Leu Asn (SEQ ID NO: 2)
- CDR2¹ Tyr Thr Ser Arg Leu His Ser (SEQ ID NO: 3)
- CDR3¹ Gln Gln Gly Asn Thr Leu Pro Tyr Thr (SEQ ID NO: 4); and the FR1¹, FR2¹, FR3¹ and FR4¹ comprise a set of the following amino acid sequences:
- FR1¹ Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala

 Ser Val Gly Asp Arg Val Thr Ile Thr Cys (SEQ ID NO:

 5)
- FR2¹ Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu

 Ile Tyr (SEQ ID NO: 6)
- Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr

 Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro Glu Asp

 Ile Ala Thr Tyr Tyr Cys (SEQ ID NO: 7)
- FR4¹ Phe Gly Gln Gly Thr Lys Val Glu Ile Lys (SEQ ID NO: 8);

<u>or</u>

- FR1¹ Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala

 Ser Val Gly Asp Arg Val Thr Ile Thr Cys (SEQ ID NO:

 5)
- FR2¹ Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr (SEQ ID NO: 6)
- Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr

 Asp Tyr Thr Phe Thr Ile Ser Ser Leu Gln Pro Glu Asp

 Ile Ala Thr Tyr Tyr Cys (SEQ ID NO: 9)

FR4¹ Phe Gly Gln Gly Thr Lys Val Glu Ile Lys (SEQ ID NO: 8);

<u>and</u>

(2) a C region of an L chain of a human antibody Cκ; and

(B) H chains of an antibody to the human IL-6 receptor, each comprising:

(1) a V region of a heavy (H) chain of an antibody to the human IL-6 receptor having the following structure:

FR12-CDR12-FR22-CDR22-FR32-CDR32-FR42

wherein CDR1², CDR2² and CDR3² represent a set of three complementarity determining regions comprising a set of the following amino acid sequences:

- CDR1² Ser Asp His Ala Trp Ser (SEQ ID NO: 10)
- CDR2² Tyr Ile Ser Tyr Ser Gly Ile Thr Thr Tyr Asn Pro Ser
 Leu Lys Ser (SEQ ID NO: 11)
- CDR3² Ser Leu Ala Arg Thr Thr Ala Met Asp Tyr (SEQ ID NO: 12);

and the FR1², FR2², FR3² and FR4² comprise a set of the following amino acid sequences:

- FR1² Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Arg
 Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly
 Tyr Ser Ile Thr (SEQ ID NO: 13)
- FR2² Trp Val Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp Ile
 Gly (SEQ ID NO: 14)
- FR3² Arg Val Thr Met Leu Arg Asp Thr Ser Lys Asn Gln

 Phe Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr

 Ala Val Tyr Tyr Cys Ala Arg (SEQ ID NO: 15)
- FR4² Trp Gly Gln Gly Ser Leu Val Thr Val Ser Ser (SEQ ID NO: 16);
- FR1² Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Arg

 Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly

 Tyr Thr Phe Thr (SEQ ID NO: 17)
- FR2² Trp Val Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp Met Gly (SEQ ID NO: 18)

FR3 ²	Arg Val Thr Met Leu Arg Asp Thr Ser Lys Asn Gln	
	Phe Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr	
	Ala Val Tyr Tyr Cys Ala Arg (SEQ ID NO: 15)	
FR4 ²	Trp Gly Gln Gly Ser Leu Val Thr Val Ser Ser (SEQ ID	
	NO: 16);	
FR1 ²	Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Arg	
	Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly	
	Tyr Thr Phe Thr (SEQ ID NO: 19)	
FR2 ²	Trp Val Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp Me	
	Gly (SEQ ID NO: 18)	
FR3 ²	Arg Val Thr Met Leu Arg Asp Thr Ser Lys Asn Gln	
	Phe Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr	
	Ala Val Tyr Tyr Cys Ala Arg (SEQ ID NO: 15)	
FR4 ²	Trp Gly Gln Gly Ser Leu Val Thr Val Ser Ser (SEQ ID	
	NO: 16);	
FR1 ²	Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Arg	
	Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly	
	Tyr Thr Phe Thr (SEQ ID NO: 17)	
FR2 ²	Trp Val Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp Ile	
	Gly (SEQ ID NO: 14)	
FR3 ²	Arg Val Thr Met Leu Arg Asp Thr Ser Lys Asn Gln	
	Phe Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr	
	Ala Val Tyr Tyr Cys Ala Arg (SEQ ID NO: 15)	
FR4 ²	Trp Gly Gln Gly Ser Leu Val Thr Val Ser Ser (SEQ ID	
	NO: 16);	
FR1 ²	Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Arg	
	Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly	
	Tyr Thr Phe Thr (SEQ ID NO: 19)	
FR2 ²	Trp Val Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp Ile	
	Gly (SEQ ID NO: 14)	
FR3 ²	Arg Val Thr Met Leu Arg Asp Thr Ser Lys Asn Gln	
	Phe Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr	
	Ala Val Tyr Tyr Cys Ala Arg (SEQ ID NO: 15)	

Trp Gly Gln Gly Ser Leu Val Thr Val Ser Ser (SEQ ID

		NO: 16);
	<u>or</u>	
	FR1 ²	Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Arg
		Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly
		Tyr Thr Phe Thr (SEQ ID NO: 19)
	FR2 ²	Trp Val Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp Ile
		Gly (SEQ ID NO: 14)
	FR3 ²	Arg Val Thr Met Leu Val Asp Thr Ser Lys Asn Gln Phe
		Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr Ala
		Val Tyr Tyr Cys Ala Arg (SEQ ID NO: 20)
	FR4 ²	Trp Gly Gln Gly Ser Leu Val Thr Val Ser Ser (SEQ ID
		NO: 16);
	<u>and</u>	
	(2) a C region	n of an H chain of a human antibody Cγ.
61.1.4		N. 771
Claim 14	•	d) The method according to claim 13, wherein the
	antibody suppresses a	abnormal growth of snyovial cells.
Claim 15	(Cancelled)	
	,	
Claim 16 (Previously Presented) The method according to claim 13, wherein		d) The method according to claim 13, wherein the patient
	is a human.	
Claim 17	(Previously Presented	d) The method according to claim 16, wherein the
Claim 17	`	ered in four divided doses from about 1 to 1000 mg.
	unifoldy is udiffiniste	fred in roar divided doses from about 1 to 1000 mg.
Claim 18	(Cancelled)	

FR4²